

DERWENT-ACC-NO: 2004-048897

DERWENT-WEEK: 200405

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TITLE: Liquid fuel additive composition  
comprising biosurfactant derived from mixture  
khr-5-mx and polymer for inducing improvement of octane  
value

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PRIORITY-DATA: 2003KR-0031053 (May 15, 2003)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
KR 2003044969 A		June 9, 2003	
000	C10L 001/10		N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
KR2003044969A	N/A	
2003KR-0031053	May 15, 2003	

INT-CL (IPC): C10L001/10

ABSTRACTED-PUB-NO: KR2003044969A

BASIC-ABSTRACT:

NOVELTY - A low pollution liquid fuel additive composition obtains the same efficiency and output as conventional gasoline or more than the efficiency and output and substantially reduces concentration of carbon monoxide, hydrocarbon and nitrogen oxide in exhaust gas compared with conventional gasoline.

DETAILED DESCRIPTION - The liquid fuel additive composition comprises 10-90 plus or minus 5 wt.% of at least two saturated or unsaturated hydrocarbons such as reformat naphtha, light naphtha, non-aromatic raffinate and BTX; 10-30 plus or minus 5 wt.% of at least one monohydric aliphatic alcohol having 2-11 hydrocarbons such as methyl alcohol, 2-methyl alcohol and isobutanol; 1-10 plus or minus 5 wt.% of biosurfactant prepared by cultivating, isolating and purifying at least one or more strains selected from Bacillus khr-10-mx (KCTC 8533P) and Mixture khr-5-mx (KCTC 0078BP) into 5 x 10<sup>9</sup> CFU/mL to 10 x 10<sup>10</sup> CFU/mL; and 1-10 plus or minus 5 wt.% of at least one ether having two chained hydrocarbon groups whose carbon number is 6 or less such as methyl tertiary butyl ether and tertiary A-methyl ether, wherein the above compositions are blended in the order near to polarity.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: LIQUID FUEL ADDITIVE COMPOSITION COMPRISE  
DERIVATIVE MIXTURE

POLYMER INDUCE IMPROVE OCTANE VALUE

DERWENT-CLASS: D16 H06

CPI-CODES: D05-H04; H06-D04;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2004-020029